

SITE NARRATIVE

PLAN DESIGNER:

Company Name
Contact Name
Address
Address
Phone Number
E-mail Address

OWNER/DEVELOPER:

Company Name
Contact Name
Address
Address
Phone Number
E-mail Address

PROJECT DESCRIPTION:

Provide project description

EXISTING SITE CONDITIONS:

Describe the existing site conditions and stormwater runoff flow patterns and/or existing stormwater runoff conveyance and management features.

RECEIVING STREAM:

Determine the stormwater runoff outfall location(s) and identify the nearest receiving stream name.

AREAS OF DISTURBANCE:

Indicate the estimated limits of disturbance that will result in the proposed site improvement activities, including contractor staging areas and soil stockpile/borrow areas. The estimated disturbed area should match the area identified on the Ohio EPA Notice of Intent (if applicable).

ADJACENT AREAS:

Describe the adjacent land uses

EROSION AND SEDIMENT MEASURES:

Describe the controls that will be implemented to manage the construction site stormwater runoff and that will be used to temporarily and permanently stabilize the disturbed areas.

OEPANOI#

N/A if less than 1 Ac. disturbance
OR To Be Determined (Include permit number upon NOI approval)

CONSTRUCTION SEQUENCE:

Identify the sediment controls that are to be installed prior to or during each phase of the construction of the project improvements. Indicate when disturbed areas are to be temporarily and/or permanently stabilized. If a sediment basin shall be constructed, indicate that the City of Columbus Erosion and Sediment Control Inspector must approve removal or conversion to the permanent water quality Storm Water Control Practice (SCP).

INSPECTIONS:

The NPDES permit holder along with the Contractor shall provide qualified personnel to conduct site inspections ensuring proper functionality of the erosion and sedimentation controls. All erosion and sedimentation controls are to be inspected once per every seven calendar days and within 24 hours of a 0.5" storm event or greater that occurs over a 24 hour period. Records of the site inspections and maintenance activities shall be kept and made available to the City of Columbus and Ohio EPA if requested.

MAINTENANCE:

It is the Contractor's responsibility to maintain the sedimentation and erosion control features on this project. Any sediment or debris which has reduced the efficiency of a control shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace at no additional cost to the City. Additional sediment controls, that were not identified on the City approved plan, that are necessary to be installed to properly manage runoff are to be approved by the City.

SCHEDULE:

The Contractor shall provide a schedule of operations to the City. Sedimentation and erosion control features shall be placed in accordance with this schedule.

The onsite contacts responsible for sediment and erosion control on this site are:			
BMP Installation Primary Contact	XXXX, Attn: XXXX	Tel: (###) ###-####	Email: XXXX
BMP Installation Secondary Contact	XXXX, Attn: XXXX	Tel: (###) ###-####	Email: XXXX
BMP Maintenance	XXXX, Attn: XXXX	Tel: (###) ###-####	Email: XXXX
Site Stabilization and BMP Removal	XXXX, Attn: XXXX	Tel: (###) ###-####	Email: XXXX

NOTE: All erosion and sedimentation control practices are subject to field modifications at the discretion of the City of Columbus and the Ohio EPA. The SWPPP is required to be kept up-to-date to reflect approved modifications.

The SWPPP plan view and notes are detail sheets are a component of the overall SWPPP. The SWPPP and Ohio EPA NOI approval letter must maintained onsite at all times and made readily available upon the City of Columbus and Ohio EPA request.

Street cleaning is required during operations with the high potential to produce mud track-out, such as soil import and export activities. This includes sweeping, power cleaning and (if necessary) manual removal of dirt or mud in the street gutters. Cleaning shall be performed at a frequency sufficient to prevent the migration of track-out beyond the limits of controls identified in the SWPPP, and this may require multiple cleanings each day. Street cleaning shall occur on an as-needed basis during the remainder of construction activities.

Direct discharge of sediment laden water to the City's sewer system or a receiving stream is a violation of Ohio EPA and City of Columbus regulations. The Contractor will be held liable for the violation and subsequent fines.

TABLE 1 - DISTURBED AREA STABILIZATION TIMEFRAME REQUIREMENTS	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Any areas at final grade	Within seven days of reaching final grade
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of the most recent disturbance if the area will remain idle for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

SEDIMENT AND EROSION CONTROL NOTES

CONTRACTORS RESPONSIBILITIES:
Details have been provided on the plans in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternate details may be found in the Ohio EPA Manual "Rainwater and Land Development". The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Storm Discharges Associated with Construction Activity.

Prior to land disturbing activities commencing within the limits of disturbance identified on the plan, sedimentation and erosion control features shall be installed to manage runoff from the existing site conditions. Additional controls per plan are to be installed as site improvements are constructed. Field adjustments with respect to locations and dimensions may be made by the City of Columbus and the Ohio EPA.

The Contractor shall place inlet protection for the sedimentation control immediately after construction of the catch basins or inlets. Existing storm sewer inlets located within the project limits shall be protected with the appropriate inlet protection.

It may become necessary to remove portions of sedimentation controls during construction to facilitate the grading operations in certain areas. However, the controls shall be replaced upon completion of grading or prior to a rain event.

The contractor is responsible for ensuring that offsite soil borrow and export areas have Ohio EPA NPDES permit coverage and that appropriate erosion and sediment controls are properly installed and maintained.

The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into storm water runoff. Untreated sediment-laden runoff shall not flow off of site without being directed through a control practice.

The Contractor shall be responsible for maintaining on-site drainage at all times during construction. No Separate payment shall be made for maintaining drainage.

The cost for temporary channels, sediment dams, sediment basins, and other appurtenant earth moving operations shall be included in the price bid for erosion and sedimentation control quantities.

Regardless of whether discharges are received by a sediment basin, water pumped from excavations or other areas where water is in contact with exposed soils must be discharged into a dewatering filter bag.

Stormwater managment basin disturbed slopes above the normal pool elevation shall be seeded upon construction and temporarily stabilized with erosion control matting or straw mulch with a jute matting cover.

The contractor shall be responsible for contacting the City of Columbus Industrial Wastewater Pretreatment Group at 614-645-5876 if planning to discharge groundwater into a combined sanitary sewer. A Special Waste Evaluation Request Form (SWERF) may need to be submitted and approvals granted for the discharge to proceed.

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS

All public agencies and private contractors performing pavement cutting operations on City of Columbus streets and roadways shall protect the environment from discharges created by the pavement cutting operations. Note that Columbus City Code 1145 prohibits non-stormwater discharge into the City of Columbus sewer system, curb inlets and any part of its MS4 (Municipal Separate Storm Sewer system). Directing liquid, solid or slurry detritus from saw-cutting operations to a storm sewer inlet equipped with inlet protection designed to filter sediment from stormwater runoff is not an acceptable method of containment and is a violation of Columbus City Code 1145.

The requirement includes but is not limited to wet or dry saw-cutting, jack hammering, excavation, equipment use, etc. The public agency and/or private contractor work crews shall recover and dispose of detritus, polluted waters, or other such discharges resulting from their pavement cutting operations and protect all storm sewer inlets from receiving any discharges from the construction operations. The agency or contractor responsible for each pavement cutting activity shall be solely liable for notice of violations (NOV's) and fines issued by the City of Columbus and/or State of Ohio authorities.

Equipment, materials, and methods shall be provided by the responsible public agency and/or private contractor to work crews performing the pavement cutting activity and made available to work crews for use in cleaning up discharges resulting from such cutting activities and preventing runoff. All work crews shall be trained to exercise and employ equipment, materials, and environmental protective measures to prevent polluted discharges from entering the City of Columbus storm sewer system and water of the State of Ohio.

The public agency and/or private contractor is solely responsible for ensuring that the the inlet protection is adequate.

VEGETATION ESTABLISHMENT

The limits of seeding and mulching are as shown within the plan as indicated by the limits of disturbance. All areas not designated to be seeded shall remain under natural ground cover. Those areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense. Seeding Provided Per Item 659.

"Temporary Vegetation" - Disturbed areas not at final grade shall be stabilized with temporary vegetation per the timeframes identified within Table 1. Seeding to establish temporary vegetated cover shall be applied at the following rates:

March 1 to August 15		August 15 to November 1	
Seed: Oats	X lbs./X Sq.Ft.	Seed: Annual Rye	X lbs./X Sq.Ft.
Fertilizer: (12:12:12)	X lbs./X Sq.Ft.	Fertilizer: (12:12:12)	X lbs./X Sq.Ft.
Mulch:(Straw or Hay)	X tons/acre	Mulch:(Straw or Hay)	X tons/acre

November 1 to March 1
Mulch (ONLY):(Straw or Hay) X tons/acre

"Permanent Vegetation"- Disturbed areas at final grade shall be stabilized with permanent vegetation per the timeframes identified within Table 1. The establishment of permanent vegetation shall be done between March 15 and September 15. If seeding is done between September 15 and March 15, it shall be classified as "Temporary Seeding." Permanent seed shall be 40% Kentucky Bluegrass, 40% Creeping Red Fescue, 20% Annual Ryegrass. Establishment of permanent vegetation shall consist of fertilizing, watering, and seeding rates indicated under Item 659.

Rates of application of Item 659:
Seed: X lbs./X Sq.Ft.
Fertilizer: (12:12:12) X lbs./X Sq.Ft.
Mulch: Straw (Hay) X tons/acre (X tons/acre)

Excavated Area

Sediment Barrier

Flow

Flow

Stormwater Outfall

Filter Bag

Pump

Discharge Hose (One Hose per Filter Bag)

PLAN VIEW

Sediment Barrier

Filter Bag

Flow

Stormwater Outfall

Excavated Area

Pump

Discharge Hose Provide Secure Connection to Filter Bag

Stone Base and Berm No. 2 or No. 57

CROSS SECTION VIEW

Installation:

The Contractor shall pump muddy water encountered within excavated areas into a filter fabric bag. The bag shall be placed within a level undisturbed area as far away from the stormwater outfall as possible. The bag shall be placed on top of a aggregate pad. Additionally, a perimeter aggregate berm shall be constructed around the bag. Perimeter controls such as compost filter socks or sediment fence shall be utilized along the downstream side of the bag. The perimeter controls shall be installed to ensure that the water flowing out of the bag does not flow around the ends of the controls. Upon completion, the bag shall be removed to an area away from the stormwater outfall and opened. The accumulated sediment shall be spread out to allow to dry and stabilized with vegetation. Filter bags shall be sized based upon the pumping inflow rate.

Maintenance:

The filter bag shall be replaced when the bag is half filled with sediment.

The Contractor shall contact the project inspector/engineer for consultative services if dewatering activities overwhelm the filter bag and perimeter controls. A Special Waste Evaluation Requests Form (SWERF permit) is required for dewatering into the sanitary sewer system.

DEWATERING FILTER BAG

SCALE: NONE

Notes:

- Stone Size - Use 2" stone or reclaimed or recycled concrete equivalent.
- Length - A minimum of 100', but may be longer as determined by the City of Columbus.
- Thickness - Not less than six (6) inches.
- Width - Twenty (20) feet minimum but not less than the full width at points where ingress or egress occurs. May be wider as determined by the City of Columbus.
- Flares or radii shall be installed at the entrance if the public roadway speeds and/or traffic conditions warrant it, of if directed by C.O.C. personnel.
- Filter Fabric - Will be placed over the entire area prior to placing the stone.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes shall be permitted.
- Culvert Pipe - 12" minimum pipe is required if a storm ditch or swale exists at the proposed entrance. The culvert pipe inverts shall match the existing ditch at both sides of the entrance.
- Maintenance - The entrance shall be maintained in a condition which will protect the public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto public right-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance into public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.
- Maintenance of traffic signage shall be a 48"x48" construction entrance ahead, 200' (adequate sight distance shall be considered) before the entrance on both sides of the road or as approved the the C.O.C. Temporary Traffic Control Coordinator. Contact the C.O.C. Temporary Traffic Control Coordinator before starting the entrance work.

STABILIZED CONSTRUCTION ENTRANCE (Std. Dwg. 2230)
SCALE: NONE

Material Properties:

- The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed. At a minimum, filter fabric shall meet the guidelines set forth by the Ohio EPA Rainwater and Land Development Manual.
- Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 16-inches). Wood posts will be a minimum of 32" long.
- A trench shall be excavated approximately 6-inches wide and 6 inches deep along the line of posts and upslope from the barrier.
- The standard strength filter fabric shall be stapled or wired to the fence, and 8-inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36-inches above the original ground surface.
- Filter fabric shall not be stapled to existing trees.
- The trench shall be backfilled and soil compacted over the filter fabric.
- Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
- Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.

Maintenance:

- Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.
- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

Notes:

- The use of straw wattles has proven to be a versatile and effective ESC BMP, especially in residential settings. Straw wattles may be substituted for silt fence in linear installation. Straw wattles or compost filter socks have to be a minimum of 12 inches in diameter now (OPEA).
- For minimum criteria for the Silt Fence Fabric, reference the Ohio EPA Rainwater and Land Development Manual.

SEDIMENT BARRIER - SILT FENCE
SCALE: NONE

Notes:

- Concrete trucks shall utilize areas to washout trucks. Wash water shall not overtop the perimeter barriers. Accumulated wash water and concrete shall be removed and properly disposed of when the level of the retained material reaches half-way up the side of the silt fence. The cost associated with excavating, installation of silt fence, maintaining and removing the concrete washout area shall be included in the bid item for the project.
- Silt fence shall be entrenched, backfilled, and compacted per the silt fence detail. Fence shall be supported by stakes every four feet.
- The washout area shall be installed on level ground and the area marked with a highly visible sign. If it is not feasible to install on level ground, the area shall be protected with a secondary sediment barrier.

The exact location of the concrete washout(s) may be field located by the project engineer/site contact.

The use of portable concrete washout units is approved for all construction areas in the City of Columbus.

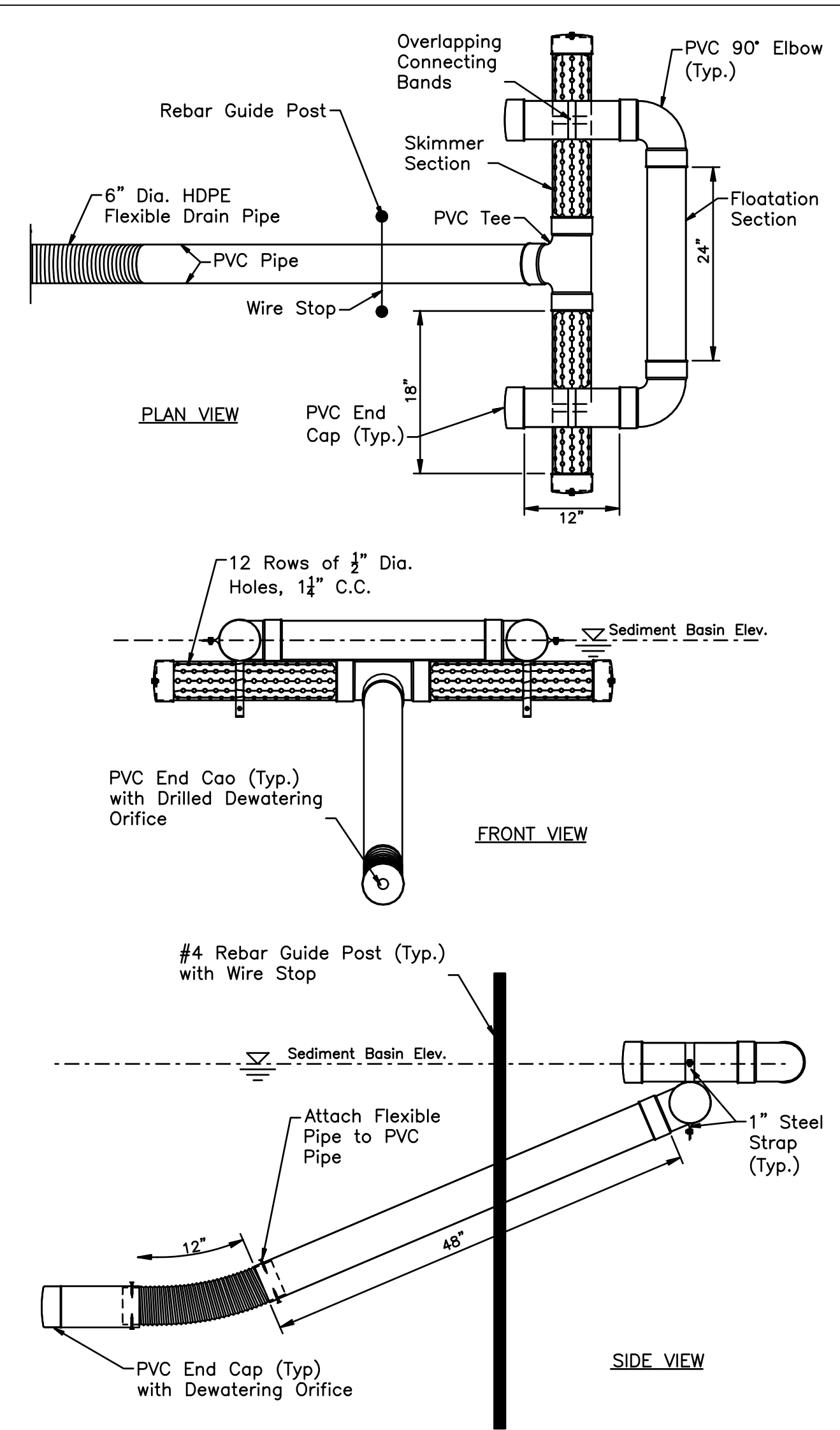
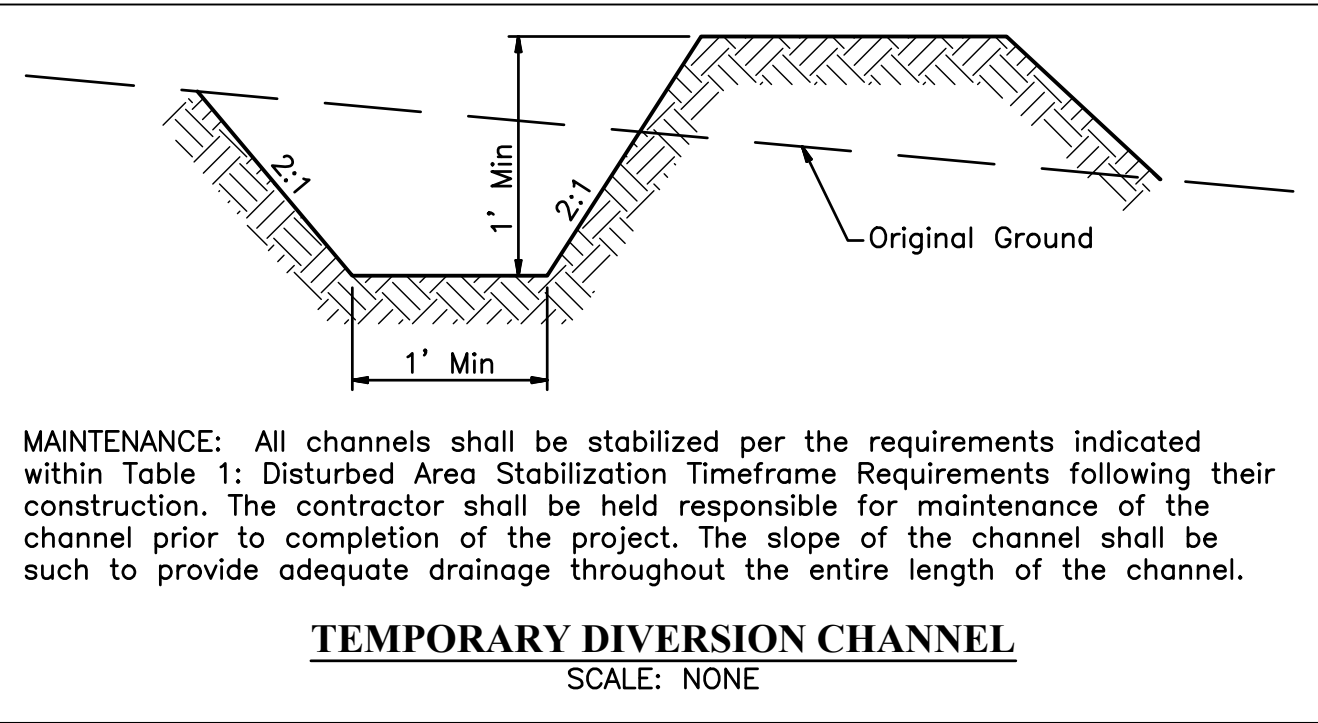
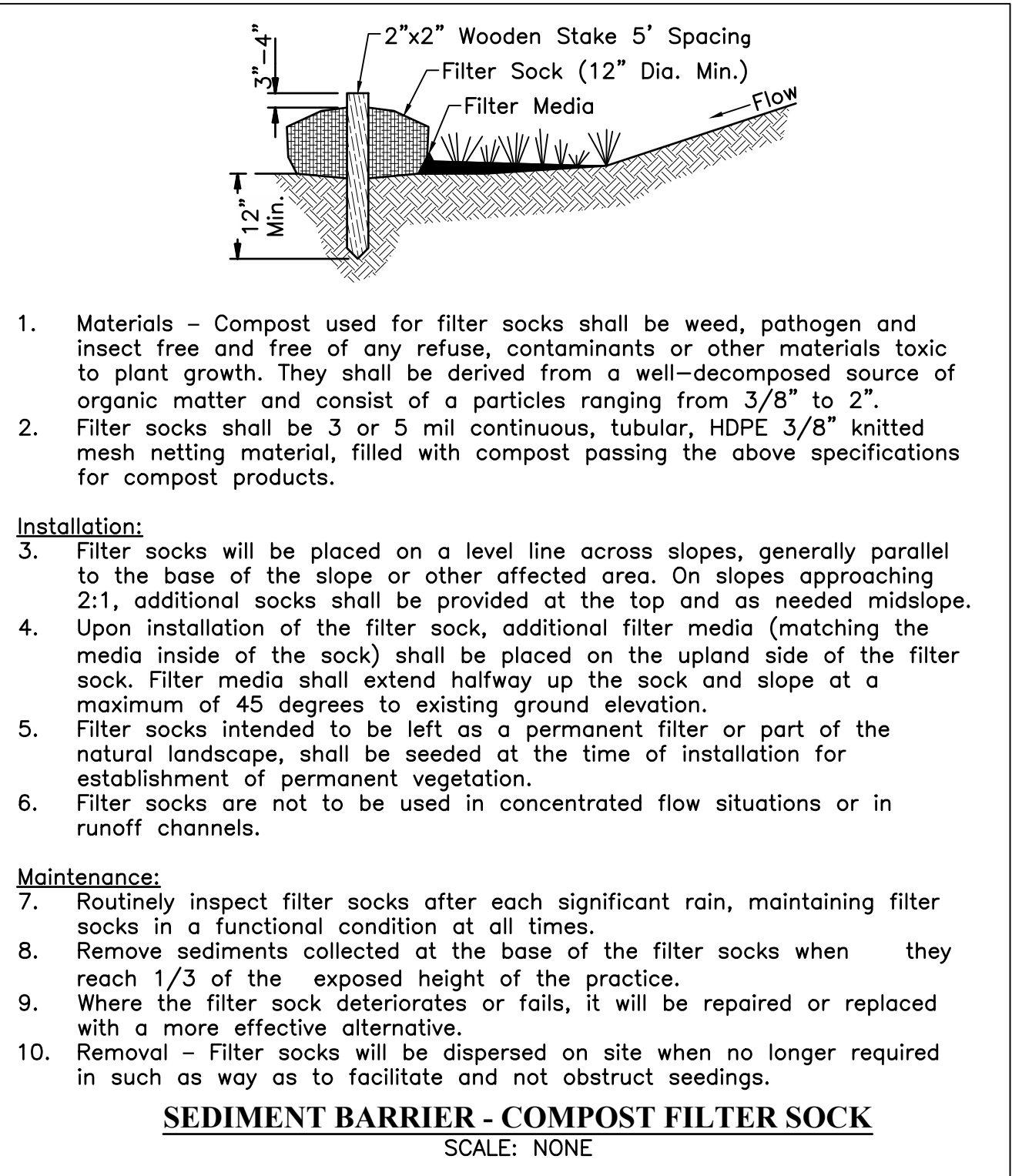
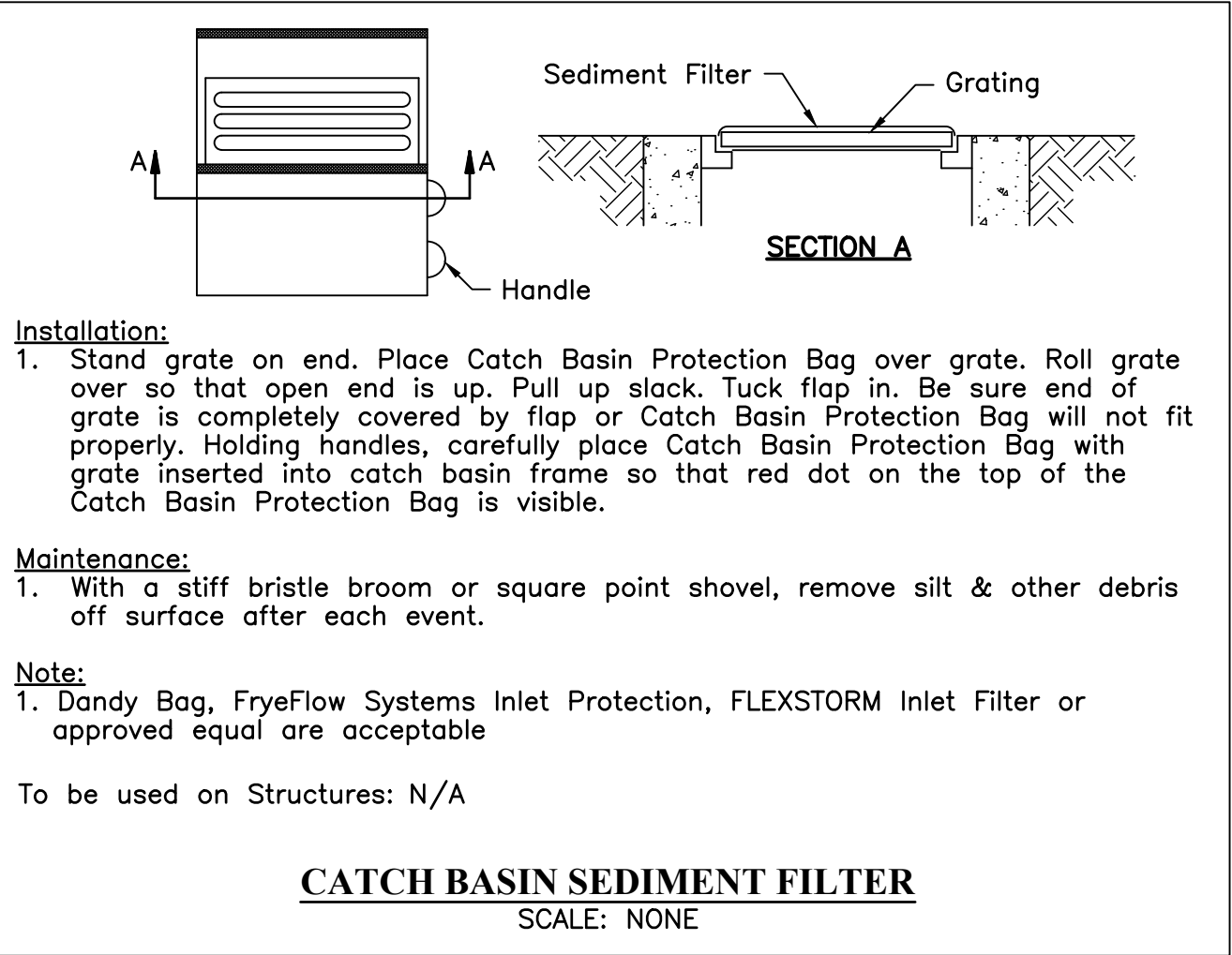
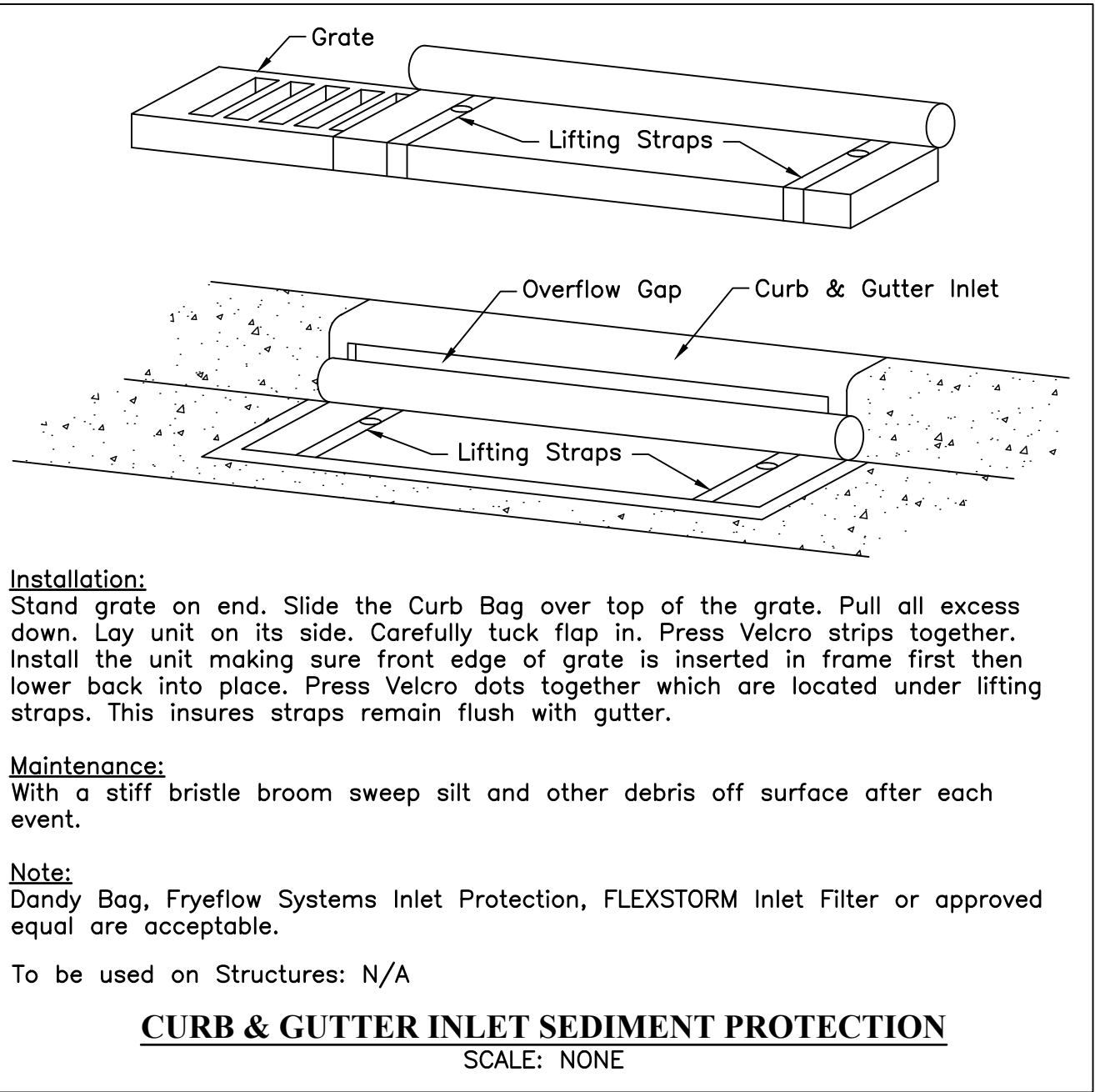
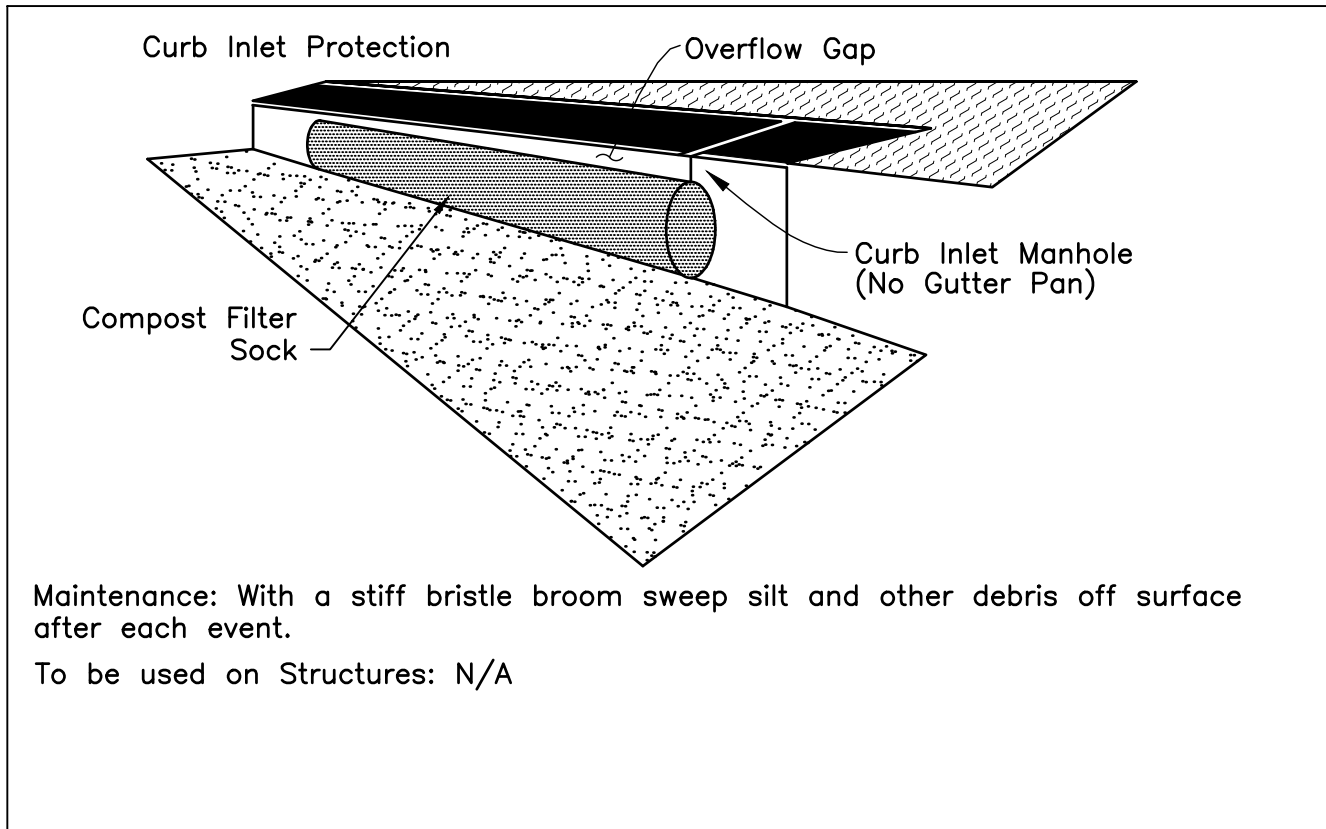
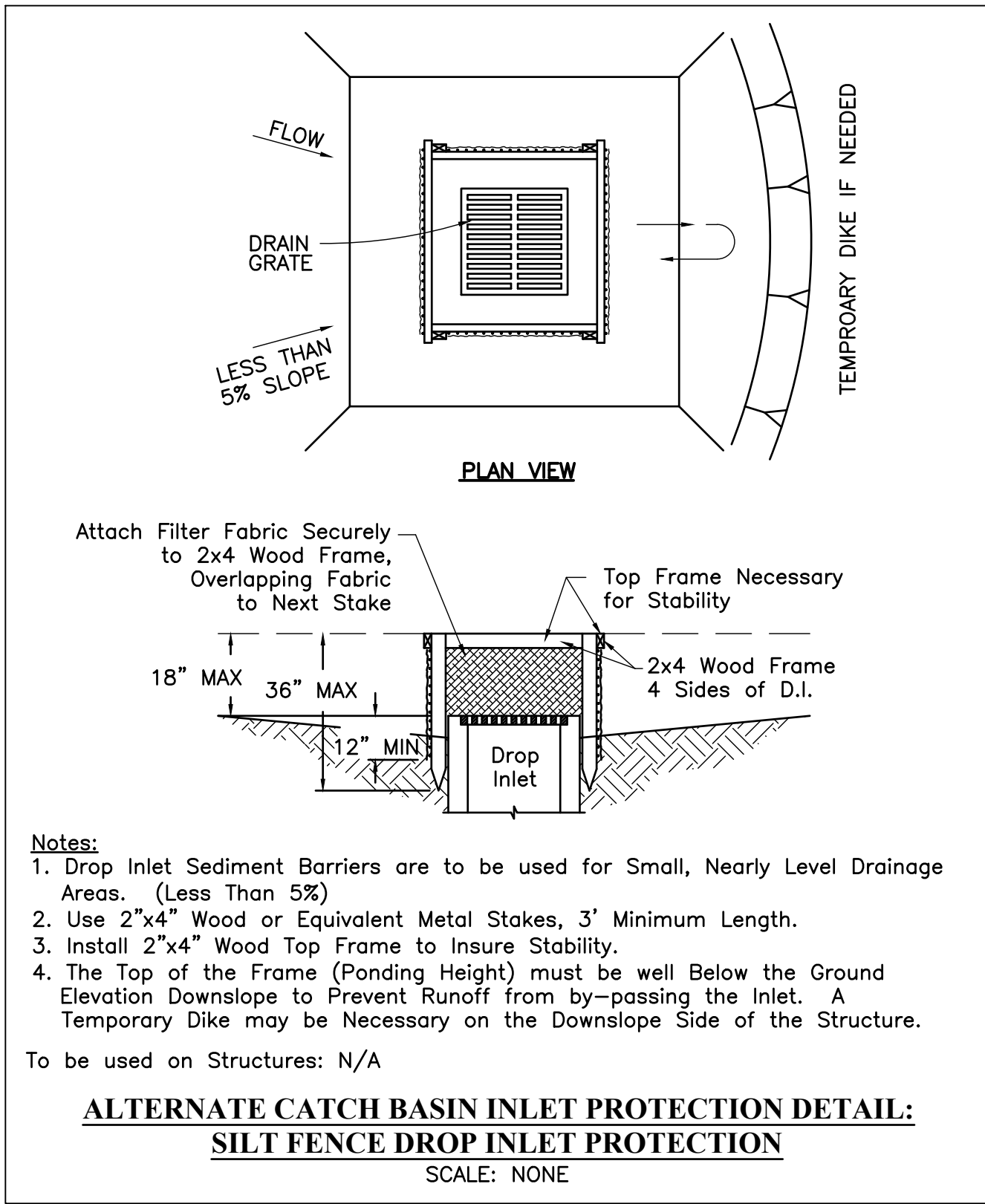
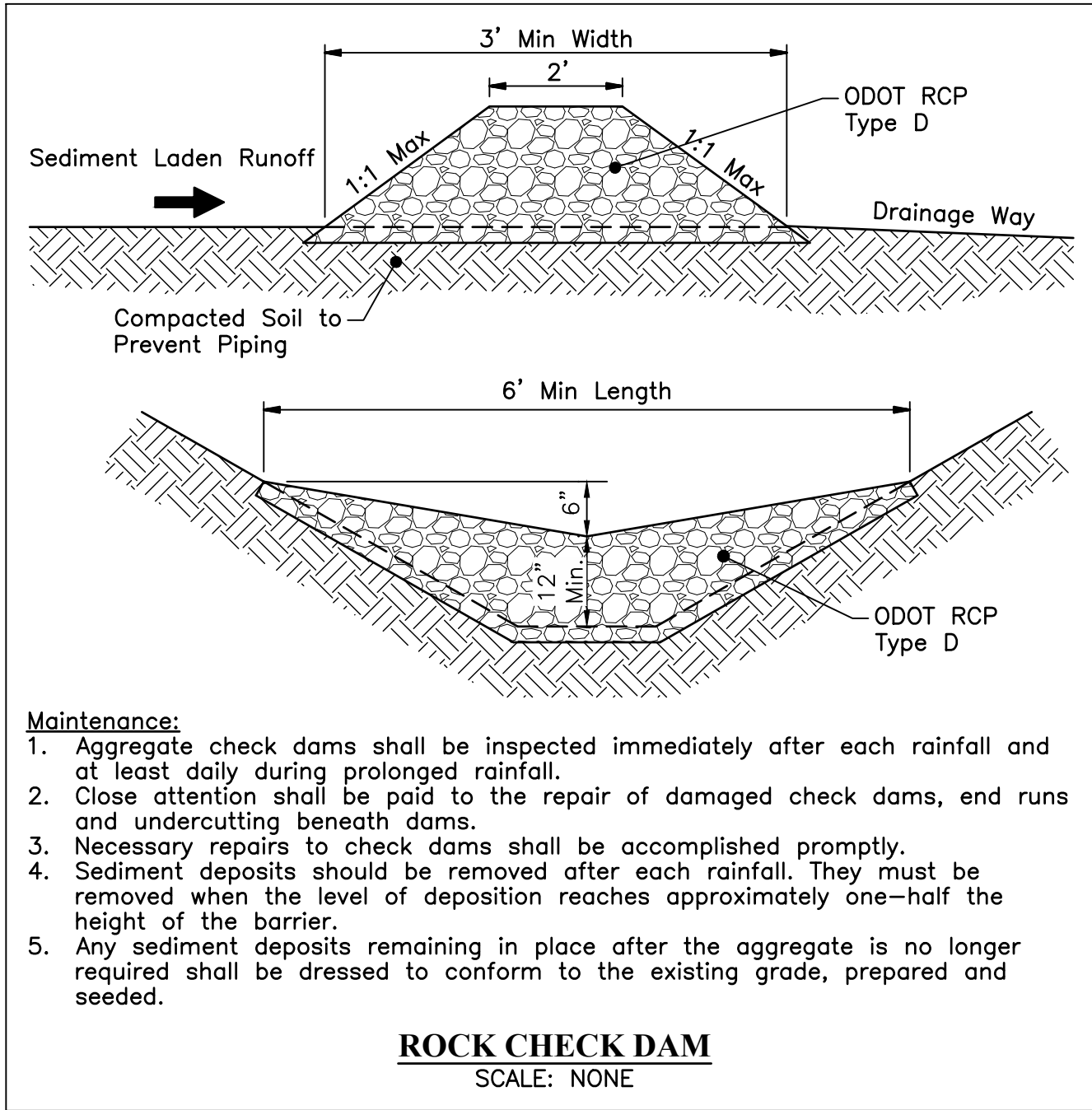
CONCRETE WASHOUT AREA
SCALE: NONE

STORMWATER POLLUTION PREVENTION PLAN NOTES

IMPROVEMENTS OF ...
STREET A FROM STREET B TO STREET C

XXXX-E

X
XX



SKIMMER SPECIFICATIONS				
BASIN	SKIMMER DIAMETER	SKIMMER ORIFICE DIAMETER	SKIMMER ORIFICE ELEVATION	WIRE STOP ELEVATION
X	X"	X"	XXX.XX	XXX.XX

Manufactured Skimmers may be substituted but must meet flow rate between XXX CFD and XXX CFD at maximum X.XX' depth. Shop Drawing to be reviewed by Engineer for approval.

City of Columbus Erosion and Sediment Control Inspector must approve removal of the temporary skimmer prior to converting the basin feature to the post-construction Stormwater Control Practice.

SEDIMENT BASIN SKIMMER
SCALE: NONE

POST CONSTRUCTION SCP INSPECTION AND MAINTENANCE SCHEDULE		
INSPECTION ITEM	MAINTENANCE PROCEDURES	FREQUENCY OF INSPECTION
SCP Component Description	Include maintenance procedures. Procedures are to conform with the the City SCP Inspection and Maintenance Manual.	Indicate Frequency

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL PRACTICES (SCPs REQUIRED)					
CONTROL/OUTLET STRUCTURE NO.	PLAN VIEW PAGE NUMBER FOR BMP	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (ACRES)	FACILITY TYPE	GREEN INFRASTRUCTURE (SQUARE FEET)*

The following note shall be added in lieu of the table above in instances where stormwater control practices are included in another phase of development or are not required.

"Refer to drawing # <XX-XXXX> for stormwater control practice information"

"Reason the project does not meet the requirements of the SCP's"

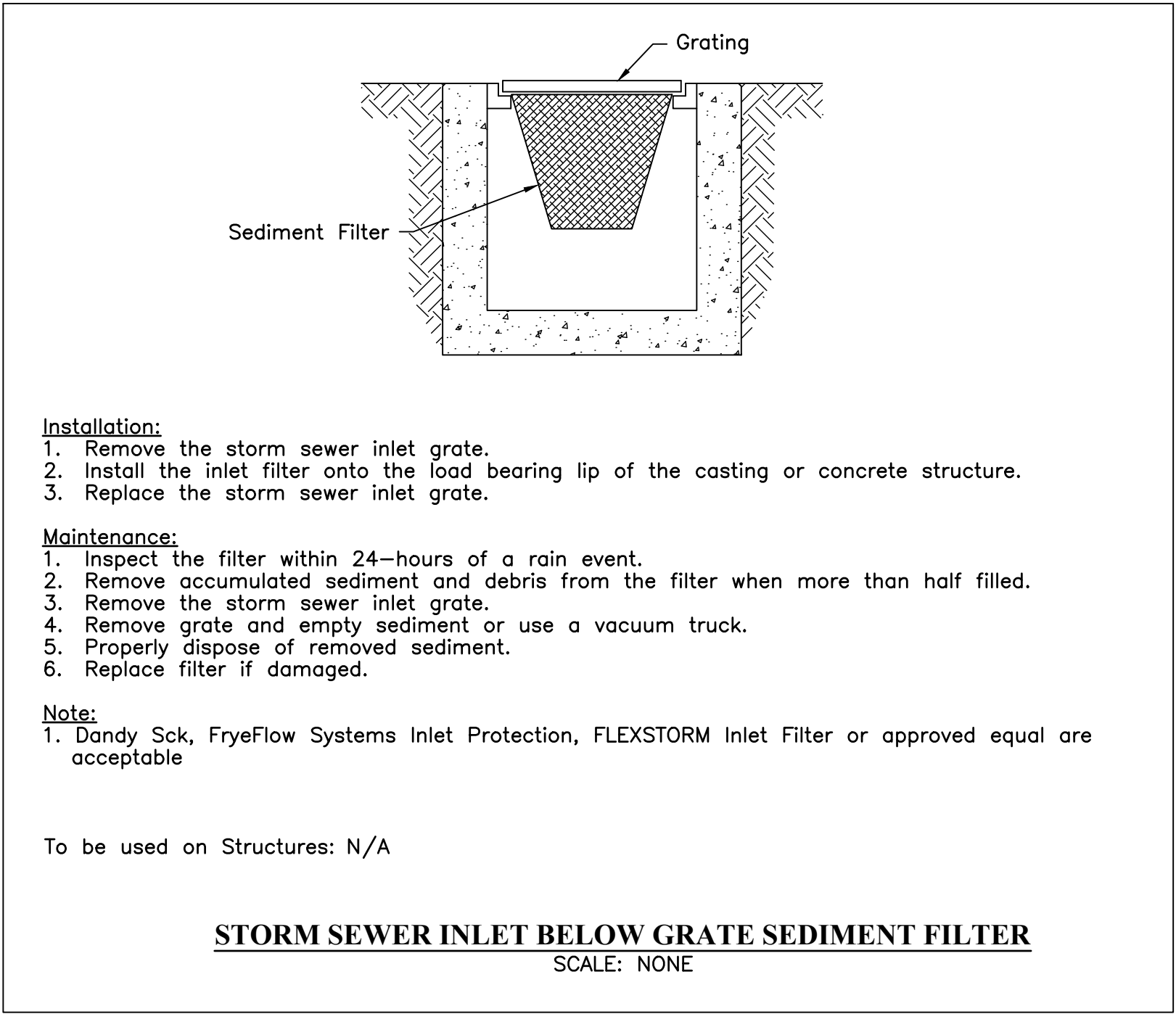
100 YEAR DETENTION TABLE				
LOCATION	VOLUME REQUIRED AC/FT	VOLUME PROVIDED AC/FT	ELEVATION	REMARKS
BMP DESCRIPTION	X.XX	X.XX	XXX.XX***	* & **

*See Storm Water Management Plan/Report for Details

**Stormwater Management Facility shall be owned and maintained by the private property owner, CC-XXXX.

***Top of XXXX

TEMPORARY SEDIMENT BASIN TABLE						
BASIN	TRIBUTARY ACREAGE	DISTURBED ACREAGE	REQUIRED BASIN DEWATERING VOLUME (67 CY/AC)	PROVIDED BASIN DEWATERING VOLUME	REQUIRED SEDIMENT STORAGE VOLUME (37 C.Y. DISTURBED A.C.)	PROVIDED SEDIMENT STORAGE VOLUME
X	X Ac	X Ac	X CY	X CY	X CY	X CY



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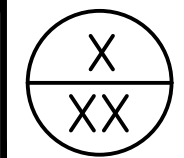
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STORMWATER POLLUTION PREVENTION PLAN NOTES

IMPROVEMENTS OF ...

STREET A FROM STREET B TO STREET C

XXXX-E





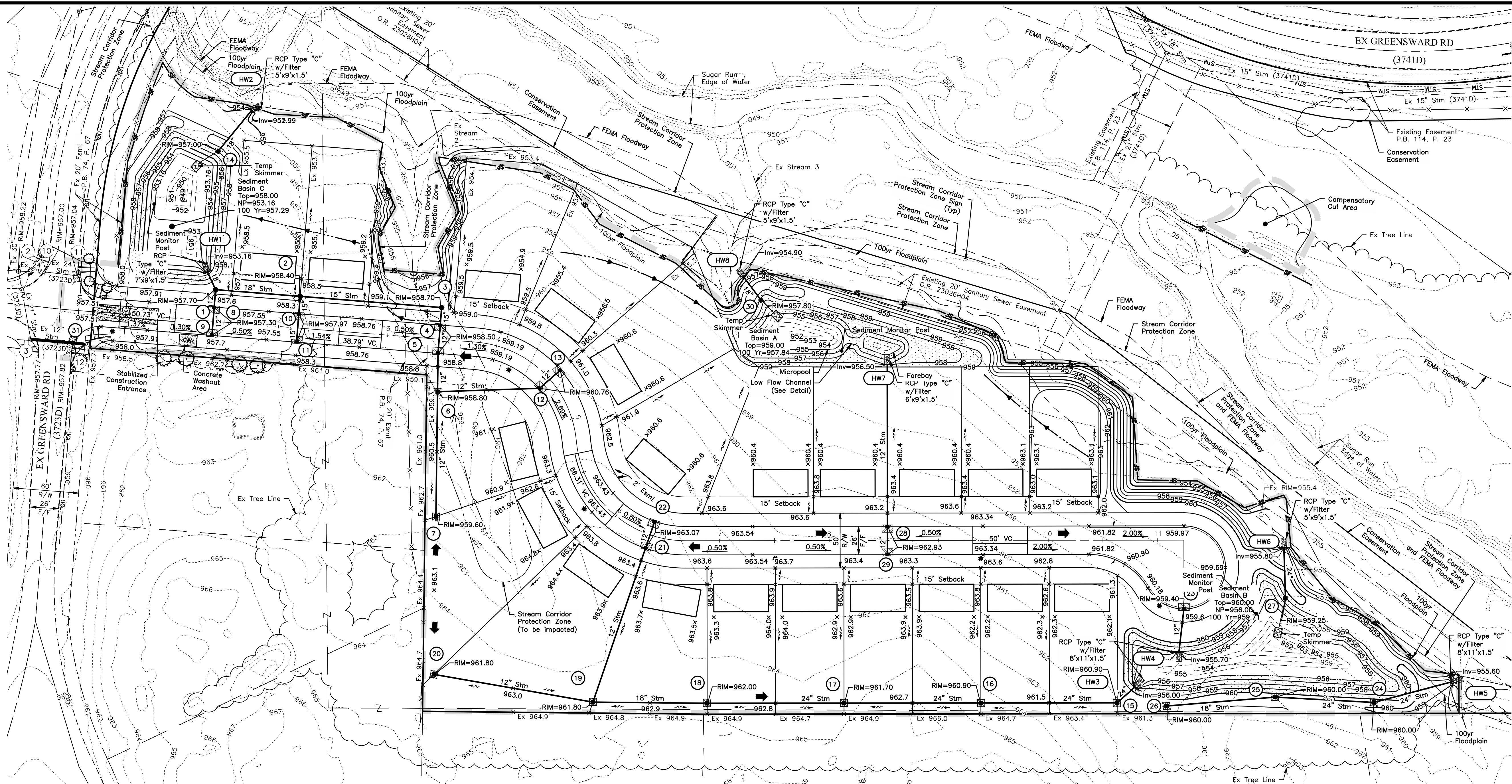
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STORMWATER POLLUTION PREVENTION PLAN

IMPROVEMENTS OF ...
STREET A FROM STREET B TO STREET C

XXXX-E

XX
XXX



LEGEND

-----905----- Existing Major Contour

-----901----- Existing Minor Contour

-----960----- Proposed Major Contour

-----959----- Proposed Minor Contour

ExStm STM ExMH Existing Storm Sewer

Stm CB MH Proposed Storm

← Flood Routing Arrow

→ Flow Arrow

Temporary Skimmer

Sediment Fence or Compost Filter Sock installation should be at edge of disturbance. Do not remove trees to facilitate installation. Actual placement should be determined by Construction Manager in the field.

Limits of Disturbance (See Sheet 19 for Path Info)

Stabilized Construction Entrance (See Detail, Sheet 9)

Concrete Washout Area (See Detail, Sheet 9)

Proposed Curb & Gutter Inlet Protection (See Detail, Sheet 10)

Proposed Silt Fence Inlet Protection (See Detail, Sheet 10)

Erosion Control Matting Item 670, Type B

Temporary Diversion Channel
The contractor is to route runoff to the sediment basins during grading and filling activities. Locations and elevations of the diversion channels are to be adjusted during filling activities.

XX
XXX